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PHOTOGRAPHIC INTERPRETATION REPORT



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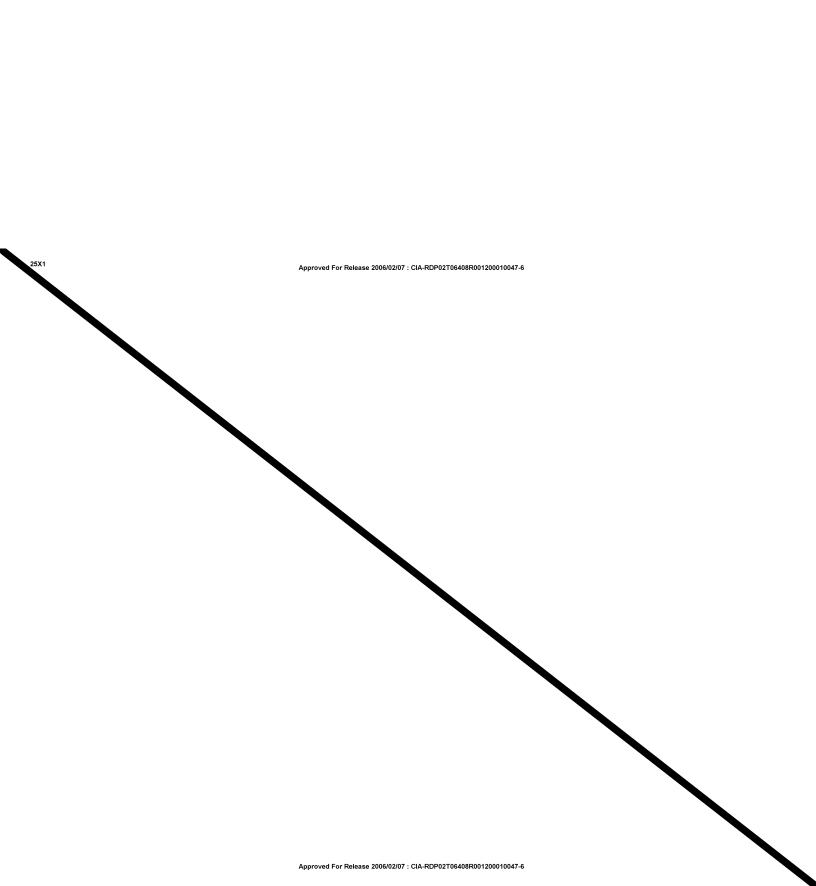
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PHOTOGRAPHIC INTERPRETATION REPORT

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CHRONOLOGICAL DEVELOPMENT OF SOLID PROPELLANT ROCKET MOTOR TEST AND PROPELLANT PRODUCTION FACILITIES BIYSK, USSR

DECEMBER 1966

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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INTRODUCTION

The Biysk Solid Propellant Rocket Motor Test and Propellant Production Facilities are located approximately 5 nautical miles west-southwest of the highway bridge that crosses the Biya River (Figure 1). The geographic coordinates of the rocket motor test facility are approximately 52-29N 085-05E. The subject facilities (Figure 2) include a double-base propellant production plant (Figures 3 and 4), a separate but related probable solid propellant production/processing facility (Figures 5 and 6) hereinafter referred to as the modified solid propellant plant, the elaborate test facility (Figure 7 and 8), and an isolated test position (see Figures 7 and 8). The modified solid propellant plant may or may not be involved in double-base formulations, although more likely it is. The section of the complex annotated in Figure 2 as a probable high-explosives/ industrial-explosives production area is not considered in detail in this report because it does not appear to be involved in the manufacture or processing of the types of explosives that are likely to be directly utilized as solid rocket propellants. It is possible, however, that this section of the complex could be involved in the manufacture of a solid oxidizer, such as ammonium perchlorate and other propellant components.

The chronological development of the complex is shown in Figures 4, 6, and 8, and building dimensions and other data are presented in Tables 1-3. Figures 9-11 are perspective views of the 2 test cells and the H-shaped checkout/assembly building at the test facility.

CHRONOLOGICAL DEVELOPMENT OF FACILITIES

The following text indicates, in general terms, the extent of development of the various elements of the com-

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plex prior to 1962, as well as developments of subsequent years not clearly evident in the figures or the tables.

1960

The _____coverage of the Biysk facilities was of very poor quality. However, the following observations can be made from this photography:

The test facility may have been in the initial stages of construction, i.e., grading and excavation. There were probably no buildings present. The isolated test position had not yet been started. The double-base plant was under construction, with the north half apparently complete or nearly so; the northernmost double base line was possibly complete. Very few buildings were present in the south half of the plant area. The modified solid propellant plant was in the early phase of construction; a few revetments, some of which may have contained buildings, were present. The probable high-explosives/industrial-explosives plant was in the early stages of construction; a few buildings, some of which were revetted, were present.

The above observations, although based on the analysis of very poor photographic coverage, tend to indicate that the principal elements of the Blysk complex may have been essentially contemporaneous in starting times and rates of construction. It appears probable, however, that some production and test elements of the complex had an operational capability considerably prior to the completion of the

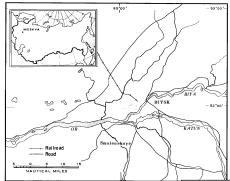


FIGURE 1. LOCATION OF BIYSK SOLID PROPELLANT ROCKET MUTUR
TEST AND PROPELLANT PRODUCTION FACILITIES.

- 1 -

 complex as a whole. It is also possible that part of the double-base plant antedates 1960 and was producing conventional propellants prior to that time.

1961

The subject facilities were again covered by very poor-quality photography from which the following observations can be made:

The test facility was in the early stages of construction, with a few buildings probably present. The isolated test position was not started. At the double-base plant considerable progress since had been made in the construction of new buildings. The south doublebase line was present. The plant as a whole was probably 70 to 80 percent complete in terms of the number of buildings present. At the modified solid propellant plant considerable progress in the construction of new buildings was evident. but the plant as a whole was probably less than half finished by the end of the year. At the probable high-explosives/ industrial-explosives plant, significant progress had been made in the construction of new buildings. The explosives storage area was not yet started.

Because of the very poor quality of the 1960 and 1961 coverages, the information derived from them should be considered as probabilities.

1062

The first fully usable photographic coverage of the Biysk complex was obtained in in of that year is the primary source of the data in Figures 4, 6, and 8. Reference to these figures and to Tables 1, 2, and 3 will indicate the approximate construction status of the facilities of the complex at the time. The probable sensitive-components storage facility at the west end of the test facility was under construction in 1962; the degree of completion cannot be determined.

1063

In 1963 the Biysk complex was covered by only 1 mission, in _____ Most of the facilities were obscured by clouds, but some information relative to the test facility and the isolated test position was available (see Figures 4, 6, and 8 and Tables 1-3).

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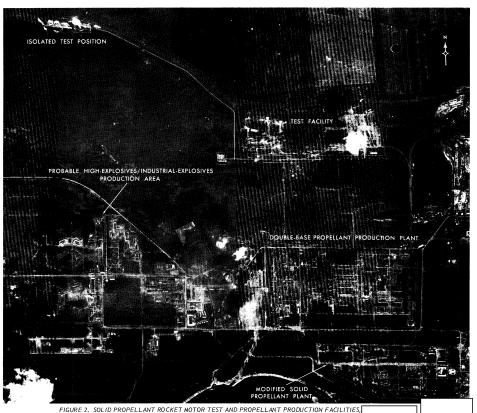


FIGURE 2, SOLID PROPELLANT ROCKET MOTOR TEST AND PROPELLANT PRODUCTION FACILIT

1964 THROUGH

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At the isolated test position, the 2 westernmost unoccupied revetments west of the position were apparently complete by ______ The third had been started by that date and was still under construction in ______ as was the wall system that will secure the area occupied by these revetments. Two additional areas of

construction activity at the test position were evident on the ______photography (see Figure 7). On photography of ______dark discoloration of snow-covered terrain opposite the test position provided evidence of a thenrecent firing. (For the status of the other facilities, see Figures 4, 6, and 8 and Tables 1-3.)

- 2 -

TOP SECRET

ESTIMATED DATES OF OPERATIONAL STATUS OF FACILITIES

The following statements concerning dates of operational status for major elements of the Biysk facilities are strictly estimates, based on an analysis of all the photographic coverage of the facilities, and should be used with due caution.

DOUBLE-BASE PLANT

MODIFIED SOLID PROPELLANT PLANT

In terms of flow pattern and type of propellant produced, this plant remains an enigma. A very similar plant is located at the Perm Rocket Motor Test and Production Facility. The Biysk plant contains buildings which can be interpreted as administration/laboratory/engineering structures (items 75, 76, and 78, Figure 6), a considerable number of revetted structures, and a group of offset buildings similar to those found in the east end of the Biysk test facility. Of the revetted structures, at least 1 and possibly more can be reasonably interpreted to be casting facilities. Item 29 in Figure 6 is the largest of these structures, with a high section on top of the main building. The height of the building and the presence of heavy revetting suggest that it may be a casting facility for large motors. It is probably rail served, as are other revetted propellant handling facilities in the plant.

TEST FACILITY

Most of the structures in the west half of the test facility were apparently complete by the end of 1962.

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temperature conditioning structures had yet been started. It is conceivable that a limited test capability existed by the end of 1962, but it appears probable that the facility as a whole did not become operational until 1964 or possibly later. The limited testing required by the early, possibly pilot-scale production of the double-base and solid propellant plants may have been carried out at the isolated test position. If the assumption is made that part or all of the early solid propellant production capability of the double-base plant is or was used for the manufacture of small, tactical-type rockets, the small shell-testing range located at the extreme west end of the test facility would have sufficed for quality-control testing. This range was apparently complete in Steamlines serving the possible temperature conditioning facilities and other structures in the east end of the test facility were in the early stages of construction in Steamline service to the test positions and their supporting facilities was probably complete by that date. Steamlines to the possible temperature conditioning facilities were

However, none of the buildings interpreted as possible

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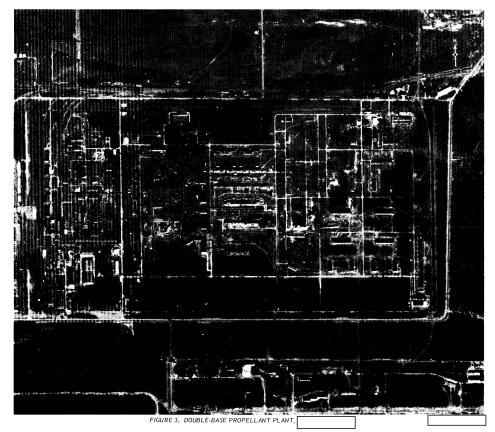
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probably completed between segments of trenching were still open in some areas on the coverage. Steamlines to the 4 large storage buildings immediately west of the temperature conditioning structures were probably incomplete as of

ISOLATED TEST POSITION

This facility was apparently operational by although it has been added to since. Photography of that date shows in an otherwise cloudless sky a roughly circular probable smoke cloud not far from the test position. The cloud was estimated to be about 2,200 feet in diameter and had drifted about 4,400 feet from the test position. On the same photography a possible burn mark is visible on the bank opposite the test position.

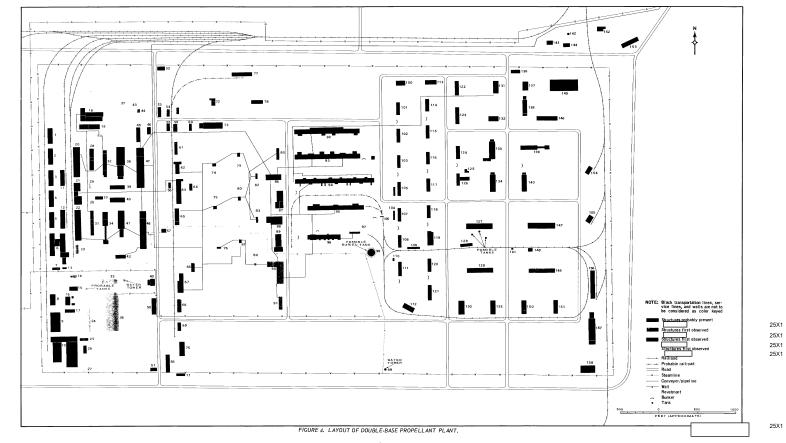


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	Dimensions (ft)*			Dimensions (ft)* Roof Prese			Dimensions (ft)*	
m Interpreted Function	Length Width Height Cover or First (eq ft) Observed	Explanatory Notes	Item Interpreted Function	Length Width Height Cover or Fir	st Explanatory Notes	Item Interpreted Function	Length Width Beight Cover or First (sq ft) Observed*	Explanatory Notes
Probably cellulose storage		1	60 U/I			106 Support		1
Probably cellulose storage			61 Possibly nitrocellulose processing			107 Double-base processing		
Probably cellulose storage			62 Possibly nitrocollulose processing			108 Double-base processing		
Probably cellulose storage			63 Possibly nitrocellulose processing		Has 25- by 20-ft projection on NE cor-			
Probably cellulose storage					ner. Connected to item 64 by overhead	109 Freight receiving/shipping		
Cellulose processing					pipeline.	110 Support		
7 U/I		This item and item 13 may be objects	64 Possibly glycerine processing		p.p	111 Double-base processing		
		in open storage. Trees and over-	65 Possibly nitrocellulose processing			112 Possibly notor storage/curing/		
		head piping limit interpretation.	66 Possibly glycerine processing		Has 5 vertical columns or tanks in row	112 Possibly notor storage/curing/		Probably rail served.
8 Shop/storage			66 Postably glycerine processing		along east side.	assembly		
9 Shop/fabrication			67 Nitroglycerine/nitrocellulose		along east side.	118 Double-base processing/storage		
9 Fabrication		Stack suggests heat treatment may be	6/ Nitroglycerine/nitrocellulose			114 Double-base processing		
		part of function of bldg.	processing			115 Double-base processing		
 Probably cellulose storage 			68 U/1			116 Double-base processing		
2 Probably cellulose storage			69 Possibly storage			117 Double-base processing		
3 U/I		See note for item 7	70 Possibly storage			118 Double-base processing		
4 0/1		DEC BOIL OF THE T.	71 Possibly storage		Shed may have been razed.	119 Double-base processing		Bldg irregular in floor plan; dimen-
5 Possibly acid processing		Dimensions overall: bldg has small	72 Support/storage			, ,		sions overall. Has at least 1 stack
		tower section and low section on	73 Possibly nitrocellulose processing					from which smoke/steam has been
		east side. Four probable tanks are	74 Glycerine nitration					seen rising on several photo cover-
	1	short distance east of blde.	75 Glycerine nitration	1	1	11		ages,
6 Possibly acid processing	1	The 2 small bldgs immediately east		1	Items 76, 81, 84, and 90 may be in-	120 Double-base processing		agent
v roceins acid processing		are and 30 by 30 ft.	76 Glycerine nitration	1		121 Double-base processing		
7 Possibly acid processing	1	and an my an It.	II.	1	volved in nitration and processing	121 Double-base processing 122 Double-base processing/storage		I
8 Possibly cellulose sitration		Complex multilevel bide connected by	I	1	of substance other than glyceriae.			
8 Possibly cellulose aitration		large-diameter overhead pipelines to	77 Possible laboratory		Building may be rail served; it	128 Double-base processing/storage		
		both cellulose processing lines.			could then be interpreted as ship-	124 Double-base processing		
9 Cellulose processine		both cellulose processing lines.			.ping/receiving facility.	125 Double-base processing		Possibly present in U/C in
		Probably part of item 18.	78 Possibly support/storage			126 Double-base processing		U/C in
			79 Nitroglycerine processing			127 Possibly notor storage/curing/		
1 Nitrocollulose processing			80 Nitroglycerine processing			assembly		
29 Nitrocellulose processing			81 Nitrorlycerine processing			128 Freight handling		
23 Possibly nitrocellulose proces	sing	May have been present in 1962.	82 Nitroglycerine processing			139 Possibly notor storage/curing/		U/C in
M Fabrication			83 Nitroglycerine processing			assembly		676111
25 Support/shop			84 Nitroglycerine processing			130 Possibly motor storage/curing/		Probably rail served.
26 Support/shop			85 Nitroglycerine/double-base			assembly		Probably tall serves.
27 Gatehouse/guardhouse		May have been present in 1962.				181 Double-base processing/storage		
28 Nitrocellulose processing		Has section near center of	86 Nitroelycerine/double-base					
		bldg.	processing			182 Double-base processing/storage 183 Double-base processing/storage		
19 Reagent supply/recovery		Facility consists of bldg and 4 tanks.	87 Nitroglycerine/double-base					SW wing added in 1964.
10 U/I			processing			184 Double-base processing/storage		
1 Nitrocellalose processing		Has high center section.	88 Nitroglycerine/double-base			135 Possibly motor storage/curing/		Probably rail served.
2 Nitrocellulose processing		Has 2 high sections, one at end and	processing			assembly		
		one near end of structure.	89 Nitroglycerine/double-base process	ei .		136 Support/possible administration		
Possibly reagent recovery		Facility consists of hidg and adjacent	90 Nitroglycerine processing	*	Very large structure. Smaller wing is	137 Support/administration		
		possible chemical processing equip-	and interest processing		higher. May be functionally related	138 Support/double-base processing		Bldg may be slightly irregular in
		ment.	11		to items 96 and 97, possible cast-			floor plan; dimensions overall,
4 Nitrocellulose processing		Has 2 high sections; roof cover is			ing facilities,	139 Double-base processing		
		approx.	ma Comment for any		Probably support for item 90.	140 Double-base processing		Has 50- by 20-ft section on north
Engineering/administration		I "	91 Support/storage 92 Double-base processing	1	Dimensions do not include several			end.
Fabrication/assembly	1	In early stage of construction, Dimensions given are for main bldg:	wa Double-base processing	1		141 Support		May have been present in
	1	Dimensions given are for main bldg:	11	1	open rectangular projections along length of hide.	142 Tank		, o occu present m
	1	low section on north end measures	II	1		148 Administration/support		I
			93 Double-base processing	1	Small bldg east of item 93 is	144 Administration/support		
Possibly acid repovery		Probably associated with item 43.			40 ft. Dimensions do not include	145 Packing/shipping		Probably rail served.
Nitrocollulose processing		Has high section on south end,			several open rectangular projec-	146 Support/double-base processing		Processity rail served.
Nitrocolluluse processing	1		II .	1	tions along length of bldg.			Possible product packaging facility.
Nitrocellulose processing		I	94 Double-base processing	1	Dimensions do not include several	147 Possibly motor storage/curing/		
Nitrocellulose processing	1	I	11	1	open rectangular projections along	assembly 148 Support		Possible bldg.
Nitrocellulose processing					length of bldg.	149 Possibly motor storage/curing/		Possible bug.
Possibly acid recovery		Probably associated with item 37.	95 Double-base processing		Dimensions do not include several	assembly		
U/I		Probably associated with runs of:			open rectangular projections along			
Nitrocellulose processing					longth of bldg.	150 Possibly motor storage/curing/		Rail served.
Nitrocellulose processing			96 Possibly easting		U/C in Dancollely assemble to bu			
Nitrocellulose processing		Has section on north and		1	U/C in possibly complete by late 1964. Similar to several others	151 Possibly motor storage/curing/		Rail served.
Nitrocelluluse processing Nitrocelluluse processing	1	Has section on north end. High multilevel structure.	II.	1	in USSR. See item 97.	assembly		I
Possibly administration /housi	_	nige maratever suscisse.	97 Possibly casting		Part of item 96. Heavily revetted.	152 Administration/support		
9 Possibly administration/engin			94 Possibly casting		Rail served. Possibly complete in	153 Administration/housing		
	CI*	1	1	1		154 Storage		Rail served.
ing	1	1		1	late 1964, late 1965, or early-to-mid	155 Storage		Raii served.
1 Gatebouse/guardhouse	1		98 Possible buried tank	1	1966.	156 Packing/shipping		Rail served. Has high center section.
2 Gatchouse/guardhouse	1	1		1	Diameter includes earth covering,	. acking emploring		May also have assembly function.
B U/I	1	1	99 Water tower	1	1	157 Packing/shipping		Probably rail served. Has high center
U/I		1	100 Double-base processing/storage	1	1	101 A mexing/ompping		section. Dimensions are overall.
U/I	1	1	101 Double-base processing	1	1	1		
6 Possibly nitrocellulose proces	ing		102 Double-base processing	1		I B. 11		May also have assembly function.
7 U/I	1	1	103 Double-base processing	1	1	158 Packing/shipping		Still U/C in May also have as- sembly function. Small bldg immedi-
is Probably storage	1		104 Support	1		1		sentity function. Small bldg immedi-
9 U/I	1	1	105 Double-base processing	1				ately west is 25 by 20 ft.

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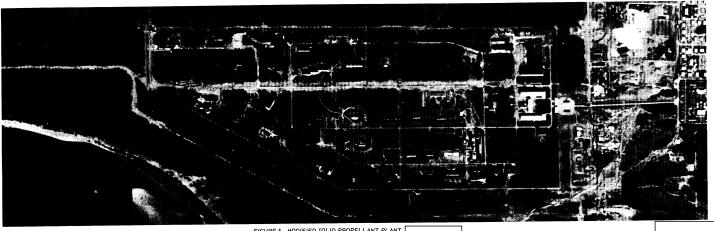


FIGURE 5. MODIFIED SOLID PROPELLANT PLANT,

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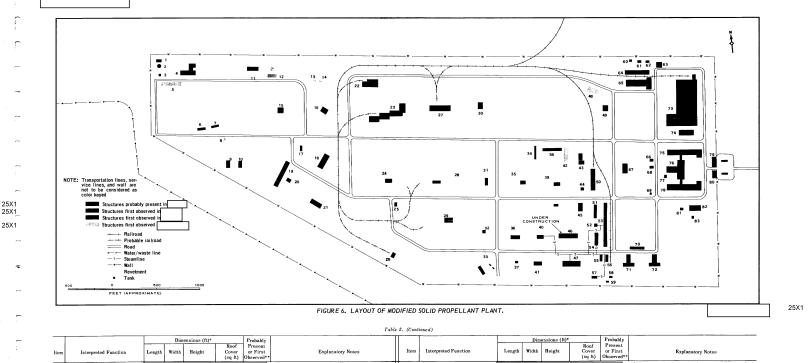
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			 nsions (ft)*		Probably					Dim	ensions (ft)*		Probably	
em!	Interpreted Function	Length Widt	Height	Roof Cover (sq ft)	Present or First Observed**	Explanatory Notes	Item	Interpreted Function	Length	Width	Height	Roof Cover (sq ft)	Present or First Observed**	Explanatory Notes
	U/I		 			May be check station for materiel entering plant from double-base plant. Bldg is probably pipeline served.	26	Propellant processing						Probably complex structure of which only 1 element is included in stated length and width. May be rail served.
	Tank U/1 U/1					Semiburied.	27 28	Possibly shipping/receiving Possibly casting						Revetted. Possibly rail served. Entrance is approx
	Storage Storage					Revetted. Revetted.	29	Possibly casting						Possibly rail served. Height given is questions of the 2-level building may be approx twice as high a
s s	Storage Possible pump/valve house Propellant processing					Revetment was U/C in Bldg may be involved in propellant mixing, casting, or curing.	30	U/I						stated. Appears to be connected with possible temperature- conditioning/motor storage facility, item 23. Rail
	Propellant processing					Revetment was U/C in Bldg may be involved in propellant mixing, casting, or curing. Heavily revetted. Located adjacent to facilities U/C	31 32	Propellant processing						served.
I	Propellant processing					in May be involved in propellant mixing,	33	Propellant processing						The 2 small structures NE of revetment are and They probably are entrances to building under revetment.
	U/I					This bldg and the tank base immediately north were U/C in Revetted possible horizontal tank or bldg.	34	Possibly fluid processing						Has row of possible columns or slender vertical to along west side. Was U/C in
3	Propellant processing					Revetted possible horizontal tank or stdg.	35	Propellant processing						
L4 L5	Propellant processing Propellant processing					Revetted or situated in cutback.	36	Propellant processing						
.o 6	Propellant processing					May be revetted or situated in cutback.	87	Propellant processing	1					
17	U/I						38	U/I	1					
18	Possibly motor handling					Height of bldg suggests it is used for core insertion/ removal or other hardware handling functions.	89 40 41	Propellant processing Propellant processing Propellant processing						
19	Propollant processing					Possible casting/curing facility has high section at one end. May contain 3 pits/silos U/C in	42 43	U/I U/I						Possibly U/C in late 1965.
20	U/I					l i	44	U/I	1					
21	Propellant processing Possibly packing/shipping					Has shed 120 by 25 ft on north side. Size and height	45	U/I	1					Blds has remained incomplete since
22	, , ,					of bldg suggest stated function. May be rail served. Is partially revetted. U/C when first seen.	46 47	U/I Propellant processing						Bldg is served by 1 or more overhead pipelines the link it with items 40, 53, and 57, possibly with
23	Possibly temperature- conditioning/motor storage					See similar structures in east end of test facility.	48	Laboratory/office						other structures.
24	Propellant processing					May be casting/curing facility, ls possibly rail served. Has unusual structure immediately cast of revetment entrance.	49 50	U/I Processing						Has high section on north end.
25	U/I						51	Processing						

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Explanatory Notes

This bldg and item 65 may be joined, to form 1 complex structure.

Cross of "T" is Sec item 64.

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Interpreted Function

Possibly storage Possibly storage Possibly storage Hardware/fabrication/assembly

Hardware/fabrication/assembly U/I U/I U/I U/I U/I U/I U/I

U/I U/I U/I U/I Possibly storage

25X1_

Width Height

Length

- 7 -TOP SECRET

Interpreted Function

Possible test laboratory Case assembly/fabrication

Width Height

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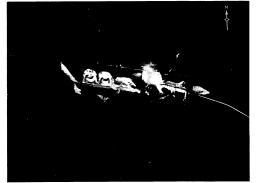
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Possibly includes laboratories.

West wing U/C in ______ rest of building apparently complete.

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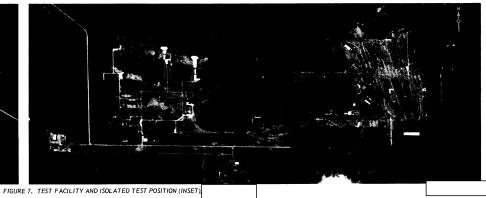


Table 3. Data on Structures in Test Facility and Isolated Test Position (item numbers are keyed to Figure 8)

							2	able 3. Data on Structures in Test Facility and Isol	ated Test Po	sition (item numbers are keyed to Fi	gure 8)					
			Dimensi	ons (ft)*			Probably					Dimension	ns (ft)*	Roof	Probab Preser	
Item	Interpreted Function	Length	Width	Heig	ght (Roof Cover sq ft)	Present or First Observed**	Explanatory Notes	Item	Interpreted Function	Length	Width	Heig		or Fire	Explanatory Notes
	FACILITY Small test cell							See Figure 9. Apparently still U/C in deflector probably completed in 1963.	28 29 30	Storage Storage Storage/shop						Still U/C, High section on west end is 66 by
	Large test cell Control/support							See Figure 10. Deflector present in 1962.	31	Storage/shop						angle acceptance were called in the sty
	Possibly post-fire checkout Checkout/assembly							H-shaped bldg; see Figure 11. Height is for highest section of this multilevel bldg.	32 33 34	Shop Storage/shop Components storage						U/C in Separate security suggests storage of sensi-
	Components storage/assembly Components storage/assembly Shop/support							ingleset socion of this materiever bing.	35	Components storage						tive components. Bldg and adjacent structure may or may not be part of test facility. Separate security
9	Shop/support Storage							Revetted.	36	U/I						suggests storage of sensitive components. Continuing construction activity evident in Separate security suggests stor-
	Shop/support Shop/test/subassembly							Tank immediately west of item 12 is 80 ft in diameter.	87	U/I						age of sensitive components. Bldg is steamline served, U/C in
į į	Shop/test/subassembly Shop/test/subassembly Shop/test/subassembly							Tower-like structure approx	38	U/I						This structure and others in same separately secured area are common to several other solid rocket motor test complexes in USSR.
	U/I Storage							Large earth-covered tank immediately north of bldg is 80 ft in diameter.	39	Storage (revetted)						Storage and assembly of igniter components is possible function for structure.
3	Possibly temperature conditioning							Still incomplete, Could also be interpreted as solid rocket motor storage/curing facility.	40	U/I ATED TEST POSITION						Possible tank west of item 40 is approx ft in diameter.
	Shop Possibly temperature conditioning							This structure could be used for pulling cores. Could also be interpreted as solid rocket	1501.	Test position revetment						Easternmost segment, which probably con- tains a control building, was first observed
								motor storage/curing facility. The 3 northernmost segments were present in 1963. May be identical to item 18.								in 1964. South and west-segments were pres- ent in 1962.
	Administration/storage/shop Storage								2	Test position/bldg						Possible smoke cloud emanating from this test position/bldg was seen onbho-
	Storage Possibly temperature conditioning							Still U/C in Could also be interpreted as solid rocket motor storage/curing facility. Northern-	3	Control/support						tography.
5	Possibly temperature conditioning							motor storage/curing lacility. Northern- most segment U/C in Facility may be identical to item 26. Could also be interpreted as solid rocket motor storage/curing facility. Northern- most segment present in 1963.	**Co Str fig	rizontal dimensions are accurate to mpletion dates are not stated, due to uctures generally may be considered ures. Photography of e text for the status of facilities dur-	both time gap apparently con the best ear	s and quality nplete in the ly coverage,	y limita e vear g	tions of the iven unless	photographi otherwise s	urate to within ±10 ft. c coverage, ated in the explanatory notes or annotated on the gy base; many structures antedate this coverage.
	Storage Storage/shop								l I	The several small buildings shown	-		to mea	sure on ava	ilable photog	raphy.

- 8 -

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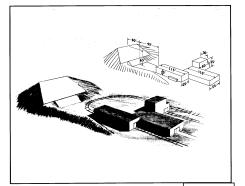
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FIGURE 9. PERSPECTIVE VIEW OF SMALL TEST CELL AT TEST FACILITY.

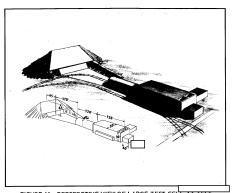


FIGURE 10. PERSPECTIVE VIEW OF LARGE TEST CELL AT TEST FACILITY.

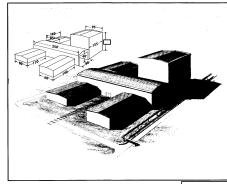


FIGURE 11. PERSPECTIVE VIEW OF H-SHAPED CHECKOUT/ASSEMBLY BUILDING AT TEST FACILITY.

	REFERENCES	
PHOTOGRAPHY		

MAPS OR CHARTS

SAC series, scale 1:200,000

REQUIREMENT

CIA. C-DI5-82,973

NPIC PROJECT

11212/66 (partial answer)

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